

carbon monoxide sensor; a moisture and/or water sensor; a current sensor; wherein the isolation unit is configured restrict a flow of water, gas or electricity when the processor determines that a parameter sensed by a local sensor exceeds a predetermined threshold.

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All of the functionality described above with respect to the electrical safety device can also be implemented in the electrical appliance with an internal thermal sensor. The electrical appliance can also form part of the electrical safety system described above.

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BRIEF DESCRIPTION OF THE DRAWINGS

Embodiments of the invention will now be described, by way of example only, with reference to the accompanying drawings, in which:

15 Figure 1 schematically illustrates an electrical safety device according to the present invention in the form of a main socket faceplate;

Figures 2A and 2B schematically illustrate an electrical safety device according to the present invention in the form of a main socket faceplate;

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Figure 3 schematically illustrates an electrical safety device according to the present invention which takes the form of a plug-in adaptor unit;

25 Figure 4 schematically illustrates an electrical safety device according to the present invention which takes the form of a plug-in adaptor unit;

Figure 5A and Figure 5B schematically illustrates a remote device of an electrical safety system according to the present invention where the remote device is a mains supply isolation unit;

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Figure 6 schematically illustrates a remote device of an electrical safety system according to the present invention where the remote device is a mains electrical supply isolation unit;